

Amendments to the Specification:

Please add the following new paragraph before the "Field of the Invention":

This application is a divisional of application Serial Number 10/241,200 filed September 11, 2002.

Delete the two paragraphs that begin at line 17 on page 2 as shown below:

~~A system that has a rectifier having an input for connection to an ac source and an output; and an inductance-capacitance filter connected to the output of the rectifier where the inductance comprises one or more non-linear inductors.~~

~~A system that has a rectifier having an input for connection to an ac source and an output; one or more non-linear inductors connected between the input of the rectifier and the ac source; and a capacitor connected across the output of the rectifier.~~

Delete the three paragraphs that begin at line 17 on page 3 as shown below:

~~A non-linear inductor having a first stack of laminations each having the same predetermined shape and at least one leg and at least one step at the end of the at least one leg. The non-linear inductor also has a second stack of laminations each having the same predetermined shape adjacent the first stack of laminations to form a flow path for magnetic flux, the at least one step at the at least one leg end and the second stack of laminations creating an air gap that has two widths between the at least one leg and the second stack of laminations to produce a desired non-linear inductance characteristic for the non-linear inductor.~~

~~A non-linear inductor having a first stack of laminations each having the same predetermined shape and at least one leg, a first predetermined number of the laminations in the first stack having a first predetermined length for the one leg and a second predetermined number of the laminations in the first stack~~

~~having a second predetermined length for the one leg. The non-linear inductor also has a second stack of laminations each having the same predetermined shape adjacent the first stack of laminations to form a flow path for magnetic flux, the one leg and second stack of laminations creating an air gap that has at least two widths between the at least one leg and the second stack of laminations to produce a desired non-linear inductance characteristic for the non-linear inductor.~~

~~A non-linear inductor that has a magnetic material tape wound toroidal core; and an air gap in the core having at least two widths.~~